

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Mixture
Product name	: James Floor Cleaner Clean & Quick dry
Product code	: 4604.2_76068RV51
Type of product	: Detergent, Treated article (Biocide)
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Professional use, Consumer use
Use of the substance/mixture	: The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.
Use of the substance/mixture	: Cleaner Floor cleaner.
Function or use category	: Cleaning/washing agents and additives

Title	Use descriptors
Transfer of product via a dedicated system (bottle/machine) (Association ref code: AISE_SUMI_PW_8a_2_G)	SU22, PC35, PROC8b, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Manual application (Association ref code: AISE_SUMI_PW_19_1)	SU22, PC35, PROC19, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Brushing after trigger spraying or brushing with tools (Association ref code: AISE_SUMI_PW_10_1)	SU22, PC35, PROC10, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

James
Rudolf Dieselweg 28 a
NL-5928 RA Venlo - Nederland
T +31 (0) 773278000
info@james.eu

1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids Not classified

Serious eye damage/eye irritation, Category 2

H319

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Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

EUH-statements

: EUH208 - Contains BENZISOTHIAZOLINONE. May produce an allergic reaction.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions. The information in this section applies to the undiluted product.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(INCI: ALCOHOL)	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Alcohol(C12-18)EO(>5-10) (INCI: C12-18 PARETH-7)	(CAS-No.) 68213-23-0 (EC-No.) 500-201-8 (REACH-no) 01-2119489387-20	1 – 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	< 0,1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butanon (Ethyl methyl ketone) (INCI: MEK) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE, MT)	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	< 0,1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (Active substance (Biocide))	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index-No.) 019-002-00-8 (REACH-no) 01-2119487136-33	< 0,1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

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2,6-di-tert-butyl-p-cresol (INCI: BHT) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 128-37-0 (EC-No.) 204-881-4 (REACH-no) 01-2119555270-46	< 0,1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(INCI: CAMPHOR) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 76-22-2 (EC-No.) 200-945-0 (REACH-no) 01-2119966156-31	< 0,1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (Active substance (Biocide))	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(0,05 ≤C < 100) Skin Sens. 1, H317
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE)	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (EC Index-No.) 019-002-00-8 (REACH-no) 01-2119487136-33	(0,5 ≤C < 2) Eye Irrit. 2, H319 (0,5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Rinse skin with water/shower.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Inhalation unlikely.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard. The product is not considered to be irritating to the skin. May cause an allergic skin reaction. Itching. Redness.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. Burning sensation. Tears. Redness.
Symptoms/effects after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not combustible.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Concerning personal protective equipment to use, see section 8. Material spilled on hard surface can present a serious slipping/falling hazard.
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6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not flush into surface water. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dispose in a safe manner in accordance with local/national regulations. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations. Wash away remainder with plenty of water.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(INCI: CAMPHOR) (76-22-2)

Ireland - Occupational Exposure Limits

Local name	Bornan-2-one
OEL (8 hours ref) (mg/m ³)	12 mg/m ³
OEL (8 hours ref) (ppm)	2 ppm
OEL (15 min ref) (mg/m ³)	18 mg/m ³
OEL (15 min ref) (ppm)	3 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	Bornan-2-one
WEL TWA (mg/m ³)	13 mg/m ³
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m ³)	19 mg/m ³
WEL STEL (ppm)	3 ppm
Regulatory reference	EH40. HSE

(INCI: ALCOHOL) (64-17-5)

Ireland - Occupational Exposure Limits

Local name	Ethanol
OEL (15 min ref) (ppm)	1000 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	Ethanol
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WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Regulatory reference	EH40. HSE

Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

EU - Occupational Exposure Limits

Local name	Butanone
IOELV TWA (mg/m ³)	600 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	900 mg/m ³
IOELV STEL (ppm)	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Ireland - Occupational Exposure Limits

Local name	Methyl ethyl ketone (MEK)
OEL (8 hours ref) (mg/m ³)	600 mg/m ³
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (mg/m ³)	900 mg/m ³
OEL (15 min ref) (ppm)	300 ppm
Notes (IE)	Sk, IOELV
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

Malta - Occupational Exposure Limits

Local name	Butanone
OEL TWA (mg/m ³)	600 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	900 mg/m ³
OEL STEL (ppm)	300 ppm
Regulatory reference	S.L.424.24

United Kingdom - Occupational Exposure Limits

Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (mg/m ³)	600 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	899 mg/m ³
WEL STEL (ppm)	300 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Regulatory reference	EH40. HSE

2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

Ireland - Occupational Exposure Limits

Local name	Isopropyl alcohol
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Notes (IE)	Sk
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	Propan-2-ol
WEL TWA (mg/m ³)	999 mg/m ³

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WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL (ppm)	500 ppm
Regulatory reference	EH40. HSE

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

Ireland - Occupational Exposure Limits

Local name	Potassium hydroxide
OEL (15 min ref) (mg/m ³)	2 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	Potassium hydroxide
WEL STEL (mg/m ³)	2 mg/m ³
Regulatory reference	EH40. HSE

2,6-di-tert-butyl-p-cresol (INCI: BHT) (128-37-0)

Ireland - Occupational Exposure Limits

Local name	2,6-Ditertiary-butyl-para- cresol
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	EH40. HSE

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DNEL/DMEL (additional information)

See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
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(INCI: ALCOHOL) (64-17-5)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	1900 mg/m ³
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m ³

DNEL/DMEL (General population)

Acute - local effects, inhalation	950 mg/m ³
Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0,96 mg/l
PNEC aqua (marine water)	0,79 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3,6 mg/kg dwt
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PNEC (Soil)

PNEC soil	0,63 mg/kg dwt
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8.2. Exposure controls

Personal protective equipment:

Avoid contact with skin, eyes and clothing. Avoid all unnecessary exposure. Eye protection. Safety glasses.

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Materials for protective clothing:

The information in this section applies to the undiluted product.

Hand protection:

None under normal use

Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. EN 166. Eye protection should only be necessary where liquid could be splashed or sprayed

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special protection required where adequate ventilation is maintained

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke when using this product. The information in this section applies to the undiluted product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Light green. clear.
Odour	: Ethanol. perfumed.
Odour threshold	: No data available
pH	: 7,5 (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 50 °C (not maintaining combustion)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,984 g/cm ³ (20°C)
Solubility	: Material highly soluble in water. completely soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 50,813 mm ² /s
Viscosity, dynamic	: < 50 mPa·s (20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Not established.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

(INCI: CAMPHOR) (76-22-2)

LD50 oral	1310 mg/kg
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(INCI: ALCOHOL) (64-17-5)

LD50 oral rat	10470 – 13600 mg/kg
LD50 oral	10470 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	15800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	51 – 124,7 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 99999 mg/l/4h

Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

LD50 oral rat	2193 – 3460 mg/kg (OECD 423)
LD50 oral	2737 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (OECD 402)
LD50 dermal	6400 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5000 mg/l/4h

2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

LD50 oral rat	4750 – 5840 mg/kg
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	> 2000 (≤ 13900) mg/kg
LD50 dermal	12800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	20 – 72,6 mg/l
LC50 inhalation rat (Dust/Mist - mg/l/4h)	46600 mg/l/4h
LC50 inhalation rat (Vapours - mg/l/4h)	30 mg/l/4h

1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (2634-33-5)

LD50 oral rat	450 mg/kg
LD50 oral	1050 mg/kg bodyweight (Mouse)
LD50 dermal rat	> 4115 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	4115 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	100 mg/l/4h

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

LD50 oral rat	333 mg/kg
LD50 oral	333 mg/kg bodyweight

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2,6-di-tert-butyl-p-cresol (INCI: BHT) (128-37-0)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified pH: 7,5 (20°C)
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation. Classification according to Regulation (EC) No. 1272/2008 [CLP]. (CLP Annex I, 1.1.3). Bridging principle "Substantially similar mixtures". Bridging principle "Dilution" pH: 7,5 (20°C)
Additional information	: Expert judgement and weight of evidence determination Detergent Industry Network for CLP Classification Classification Record: DetNet/1295
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Viscosity, kinematic	< 50,813 mm ² /s
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

(INCI: CAMPHOR) (76-22-2)

LC50 fish 1	17 mg/l (96h)
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(INCI: ALCOHOL) (64-17-5)

LC50 fish 1	14200 mg/l
LC50 fish 2	> 100 mg/l (48h, Leuciscus idus)
EC50 Daphnia 1	12340 mg/l (48h)
EC50 other aquatic organisms 1	5012 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	275 mg/l IC50 algae (72 h) mg/l
EC50 72h algae (1)	> 100 mg/l (72h, Selenastrum capricornutum)

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Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

LC50 fish 1	2993 mg/l
LC50 fish 2	2993 (96h, Pimephales promelas, OECD 203)
EC50 other aquatic organisms 1	308 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	1972 mg/l IC50 alga (72 h) mg/l
EC50 72h algae (1)	1972 mg/l (Pseudokirchneriella subcapitata, OECD 201)

2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

LC50 fish 1	4200 – 9640 mg/l (96h, Pimephales promelas)
LC50 fish 2	> 100 mg/l (Leuciscus idus)
EC50 Daphnia 1	> 1000 mg/l (24h)
EC50 Daphnia 2	9714 mg/l (24h, OECD 202)
EC50 other aquatic organisms 1	> 100 mg/l (Daphnia magna, 48h)
EC50 other aquatic organisms 2	> 1000 mg/l IC50 alga (72 h) mg/l
EC50 72h algae (1)	> 1000 mg/l (Scenedesmus subspicatus)
EC50 72h algae (2)	> 100 mg/l (Scenedesmus subspicatus)
LOEC (acute)	1000 mg/l (Algae, 8d)

1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (2634-33-5)

LC50 fish 1	2,18 mg/l
LC50 fish 2	0,74 mg/l (96h)
EC50 Daphnia 1	3 mg/l (48h)
EC50 Daphnia 2	2,44 mg/l (48h)
EC50 other aquatic organisms 1	2,94 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	0,11 mg/l IC50 alga (72 h) mg/l
ErC50 (algae)	0,11 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)
NOEC chronic algae	0,027 mg/l (72h, Skeletonema costatum, OECD 201)

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

LC50 fish 1	45,4 – 80 mg/l (96h, Min: Oncorhynchus mykiss / Max: Gambusia affinis)
LC50 fish 2	80 (24h)
EC50 Daphnia 1	40 – 40,4
EC50 Daphnia 2	40 – 240

2,6-di-tert-butyl-p-cresol (INCI: BHT) (128-37-0)

EC50 Daphnia 1	0,61 mg/l (48h)
EC50 other aquatic organisms 1	> 10000 mg/l (3h, bacteriaceae)

12.2. Persistence and degradability

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Persistence and degradability	Not established. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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(INCI: CAMPHOR) (76-22-2)

Biodegradation	77 % (28d, OECD 301F)
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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(INCI: CAMPHOR) (76-22-2)

Partition coefficient n-octanol/water (Log Pow)	2,38
Partition coefficient n-octanol/water (Log Kow)	3,04

(INCI: ALCOHOL) (64-17-5)

Partition coefficient n-octanol/water (Log Kow)	-0,3
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Alcohol(C12-18)EO(>5-10) (INCI: C12-18 PARETH-7) (68213-23-0)

Partition coefficient n-octanol/water (Log Kow)	4,38
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Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

Partition coefficient n-octanol/water (Log Pow)	0,3
Partition coefficient n-octanol/water (Log Kow)	0,29

2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

Partition coefficient n-octanol/water (Log Pow)	0,05
Partition coefficient n-octanol/water (Log Kow)	0,05

1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (2634-33-5)

BCF fish 1	6,95 (OECD 305)
Partition coefficient n-octanol/water (Log Kow)	0,64 (0,4 – 0,7)

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

Partition coefficient n-octanol/water (Log Kow)	-3,88
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2,6-di-tert-butyl-p-cresol (INCI: BHT) (128-37-0)

Partition coefficient n-octanol/water (Log Pow)	4,17
Partition coefficient n-octanol/water (Log Kow)	5,1

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Chemical refuse, Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Flush residue with large amounts of water.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Allergenic fragrances > 0,01%:

Hexyl cinnamic aldehyde [(E)-2-benzylideneoctanal] (INCI: HEXYL CINNAMAL)

Linalool (INCI: LINALOOL)

Detergent Regulation (648/2004/EC): Labelling of contents:

Component	%
non-ionic surfactants	<5%
BENZISOTHIAZOLINONE	
perfumes	
HEXYL CINNAMAL	
LINALOOL	

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

This product contains biocidal products

Type of product (Biocide)

: 6 - Preservatives for products during storage

Contains

: BENZISOTHIAZOLINONE

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

SECTION 16: Other information

Abbreviations and acronyms:

	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR:\Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV@: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

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N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
SDS	Safety Data Sheet
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None. **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. Not classified	Flammable liquids Not classified
Flam. Sol. 2	Flammable solids, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains BENZISOTHIAZOLINONE. May produce an allergic reaction.

Full text of use descriptors

AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Wide dispersive indoor use of processing aids in open systems
PC35	Washing and cleaning products (including solvent based products)
PROC10	Roller application or brushing
PROC19	Manual activities involving hand contact
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.